

APPENDIX E
ATTACHMENT A - BIG CREEK
CHEROKEE NATIONAL FOREST
 Threatened, Endangered and Sensitive Species 2001 List
 Revised 5/14/09 (jah)

PRC*	Scientific Name	Common Name	Range/Watershed/ County*	CNF Records	Habitat Information	TES	G-Rank
Amphibians							
7b	Desmognathus carolinensis	Carolina Mountain Dusky Salamander	NC & TN; Doe River Valley SW to Pigeon River Valley	Common in Carter, Unicoi, Greene, Cocke, Washington Counties	Seeps, springs, headwater streams, wet rock faces at lower elevations; more terrestrial at higher elevations; v. common in spruce/fir & northern hardwood forests; 900-6600 ft	S	G4
1a	Desmognathus santeetlah	Santeetlah dusky salamander	NC & TN; Unicoi, Great Smoky, & Great Balsam Mtns. Monroe to Cocke Co.	4 records; Monroe Co. & SW Cocke Co.	Mid-high elevation seeps, stream headwaters, rock faces; 640-1805 m, primarily > 3200 ft	S	G3G4Q
1a	Eurycea junaluska	Junaluska salamander	W NC & SW TN; Sevier Co. & Monroe Co., TN	8 Monroe Co. records Tellico, Bald & North Rivers, Citico & Slickrock Creeks; potentially Hiwassee River drainage; total 17 streams range-wide	Large streams with sand-gravel substrate, large rocks & adjacent riparian forests. Low elevation, 1100-2000 ft.	S	G3
1a	Plethodon aureolus	Tellico salamander	Unicoi Mtns & adjacent valleys of TN and NC, between Little TN & Hiwassee Rivers	1 Monroe Co. record; also in Polk Co.	Hardwood and pine-hardwood forest; terrestrial breeder in leaf litter humus/rotting logs	S	G2G3
7b	Plethodon teyahalee	Southern Appalachian salamander	TN, NC, SC, GA; W of French Broad in Cocke Co. to Unicoi Mtns in Polk & Monroe Co.	Polk, Monroe, Cocke Cos.	Deciduous, mesic forest; terrestrial breeders (underground); <5000 ft.	S	G3
1a	Plethodon welleri	Weller's salamander	SW VA to NE TN & NW NC; Johnson, Carter & Unicoi Co.	11 TDEC records; Johnson, Carter, Unicoi Cos.	Spruce-fir, birch-hemlock and other mesic, rocky forests; boulderfields; grassy open areas; terrestrial breeder-moss mats & rotting logs; > 2200 ft.	S	G3
Arachnids							
1a	Microhexura montivaga	Spruce-fir moss spider	Mountains of NC, TN	3 TDEC records; Roan Mtn.; Carter Co.	Moss and liverwort mats on rocks/boulders in mature spruce-fir forest > 5400 ft.	E	G1
Birds							
1a	Falco peregrinus	Peregrine Falcon	US and CAN	2 TDEC records; hacking Big Bald 1987-89. Carter, Greene, Unicoi Cos.	Nests at ledges of vertical rocky cliffs. Feeds in fields, lakeshores, and river mouths.	S	G4
1a	Haliaeetus leucocephalus	Bald eagle	US and CAN	2 TDEC records; active nest at Parksville Lake 2006-7; hacking S. Holston Lake 1991-94; other recent nests Tellico Lake. Carter, Johnson, Unicoi, Sullivan, Monroe Washington, Polk Cos.	Nests in large "supercanopy" trees along lake & river shores. Prefers roosts in conifers & protected areas along open water in winter.	S	G5
1a	Lanius ludovicianus migrans	Migrant loggerhead shrike	ME to MN south, from GA to AR; OK, TX; CAN: PE to MB	0 TDEC records; occurs thruout E. Tennessee; Greene Co. near Forest	Low elevation crop & grasslands and old fields with scattered trees, shrubs, posts	S	G4T3Q
Fish							
1a	Cottus baileyi	Black sculpin	SH	20 occ in tributaries to Beaverdam and Laurel Crks	Cool and cold water rivers and streams to headwater springs. Rare in Streams over 15m wide. Utilize riffles, runs, and pools with gravel, stone, and boulder substrates. Mod. To high gradient.	S	G4Q
1a	Cyprinella caerulea	Blue shiner	C	5 occ Conasauga R #1 & #2; Jack's R; Sheeds Cr & Mooneyham Cr	Large streams, small to medium-sized rivers, moderate gradient, low elevation	T	G2

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1a	Erimonax monachus	Spotfin chub	LT,FB,SH	1 occ Experimental pop. in Tellico R #1	Large streams, moderate gradient, low elevation	T	G2
1a	Etheostoma acuticeps	Sharphead darter	N	1 occ. Nolichucky R #1	Large creeks to medium rivers, moderate gradient, cool warm water	S	G2G3
1a	Etheostoma brevirostrum	Holiday Darter	C	3 occ Conasauga R #1 & #2; Jack's R	Large streams to medium rivers, moderate gradient, low elevation	S	G2
1a	Etheostoma sitikuense	Citico darter	LT	2 occ Citico C r#1 & Experimental pop. in Tellico R #1	Large creeks & small-med rivers 10-80 m wide; moderate gradient, warm	E	G1
1a	Etheostoma vulneratum	Wounded darter	LT, FB	2 occ Citico Cr #4 & Tellico R #1	Small to large rivers, low to moderate gradient, low to moderate elevations	S	G3
1a	Ichthyomyzon greeleyi	Mountain brook lamprey	H,O, FB, N, SH	4 occ Hiwassee R #4; & #5; Spring Cr.#1 and Ocoee R #1	Small streams to small upland rivers, moderate to high gradient	S	G4
1a	Noturus baileyi	Smoky madtom	LT	2 occ Citico Cr #1 & Experimental pop. in Tellico R #1	Large streams, low gradient, low elevation.	E	G1
1a	Noturus flavipinnis	Yellowfin madtom	LT	2 occ Citico Cr #1 & Experimental pop. in Tellico R #1.	Large streams to large rivers, low gradient, low elevation	T	G1
1a	Percina antesella	Amber darter	C	0 occ	Large streams and small rivers, low gradient, low elevation	E	G1G2
1a	Percina burtoni	Blotchside logperch	H, SH, LT	2 occ. Spring Cr #1 & Hiwassee R #1	Large streams to small rivers, moderate gradient, low elevation	S	G2G3
1a	Percina jenkinsi	Conasauga logperch	C	2 occ Conasauga R #1 & Jack's R	Medium river, moderate gradient, low elevation	E	G1
1a	Percina palmaris	Bronze darter	C	3 occ Conasauga R #1 & #2; Jack's R	Small to medium rivers, moderate gradient, low elevation.	S	G4
1a	Percina squamata	Olive darter	H, FB, N, W, O	1 occ. Hiwassee R. #4;	Small to medium rivers, moderate to high gradient, moderate elevations	S	G3
1a	Percina tanasi	Snail darter	O, H, LT	2 occ Hiwassee R #1 & Citico Cr #1	Large streams to medium rivers, low to moderate gradient, low elevation.	T	G2G3
1a	Percina williamsi	Sickle darter	SH, W, FB	0 occ	Large streams to medium rivers, moderate gradient, low to moderate elevations.	S	G2
1a	Phenacobius crassilabrum	Fatlips minnow	P, FB, N, W, SH	2 occ Nolichucky R #1 & #3	Large streams to medium rivers, moderate to high gradient, moderate elevation	S	G4
1a	Phoxinus tennesseensis	Tennessee dace	O, H, LT, N, W, SH;	40 occ. O=13; H=15; LT=11; SH=1	1 st order spring-fed streams (1-2 m wide) of R&V region & mountain fringes; low to moderate gradients, low to moderate elevation	S	G3
Insects and Millipedes							
1a	Cheumatopsyche helma	Helma's net-spinning caddisfly	Known from at least one occurrence in 8 states: NH, PA, WV, KY, NC, TN, AL, AR; most recently discovered in Arkansas and in Abrams Cr in the GSMNP, TN	1 occ. Big Lost Cr (Hiwassee)	Large streams, low gradient, low elevation	S	G3
1a	Dixioria fowleri	A millipede	VA, TN, Laurel Fork drainage in VA; Beaverdam Crk in TN	1 occ., Holston Mtn near Backbone Rock	Leaf litter, deciduous forests	S	G2
1a	Gomphus consanguis	Cherokee clubtail	Known from at least one occurrence in 6 states: VA, NC, SC, TN, GA, AL; 15 known occurrences	2 occ. (TDEC records); known from Polk and Sullivan Counties	Small, spring-fed streams, mod to high gradient	S	G3

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1a	<i>Gomphus viridifrons</i>	Green-faced clubtail	Known from 16 states and 1 Canadian province with as many as 6 occurrences in some states; some populations are protected from habitat degradation	1 occ. Chestoa, Nolichucky R. 2001	Small-large rivers, moderate gradient	S	G4
1a	<i>Macromia margarita</i>	Mountain river cruiser	Known from at least one occurrence in 6 states: VA, NC, SC, TN, GA, AL; at least 13 occurrences; occurs in Blount Co., TN	0 occ.	Small streams to large rivers, rocky with silt deposits	S	G3
1a	<i>Megaleuctra williamsae</i>	Smokies needelfly	Known from at least one occurrence in 4 states: VA, NC, SC, TN; at least 3 occurrences in VA; known from Mt. Rogers & GSMNP	0 occ.	Springs and seeps at high elevations (>4000 feet).	S	G2
1a	<i>Ophiogomphus incurvatus alleghaniensis</i>	Allegheny Snaketail	Known from at least one occurrence in 4 states: WV, VA, TN, AL; at least 5 occurrences in TN; considered a subspecies of <i>O. incurvatus</i> by some.	2 occ. Monroe, Polk Cos. (TDEC records)	Spring-fed Piedmont streams	S	G3T2T3
1a	<i>Ophiogomphus edmundo</i>	Edmund's snaketail	Known from at least one occurrence in 3 states: TN, NC, GA; probably restricted to the Conasauga River in TN	1 occ. Conasauga R.	Large streams, low gradient, low elevation	S	G2
1a	<i>Ophiogomphus incurvatus</i>	Appalachian snaketail	Known from at least one occurrence in 4 states: PA, TN, NC, GA	1 occ Sheeds Cr #1	Small streams, low gradient	S	G3
7b	<i>Speyeria diana</i>	Diana fritillary	WV to AL	39 TDEC records, Monroe, Cocke, Greene, Carter, Johnson, Sullivan, Unicoi, Washington Cos.	Mature mesic forests, edges & grassy openings; caterpillar host is <i>Viola</i> sp.	S	G3G4
Mammals							
6a	<i>Corynorhinus rafinesquii</i>	Rafinesque's big-eared bat	OH to MO, south to FL and LA; OK, TX	1 TDEC record; Cocke Co.	Caves & mine portals; summer roosts in hollow trees, under loose bark, & abandoned buildings; forages primarily in mature forest	S	G3G4
1a	<i>Glaucomys sabrinus coloratus</i>	Carolina northern flying squirrel	Mountains of NC, TN, VA	4 TDEC records; Monroe and Carter Cos.	Mature spruce fir and adjacent northern hardwood/hemlock forests above 4000 feet; abundant snags & woody debris, fungi	E	G5T1
1a	<i>Microtus chrotorrhinus carolinensis</i>	Southern rock vole	Mountains of MD, NC, TN, VA, WV	0 TDEC records; likely Monroe, Carter, Unicoi Cos.	Cool, damp coniferous and mixed forest; moist/mossy talus and logs at higher elevations	S	G4T3
6a	<i>Myotis grisescens</i>	Gray bat	VA to KS south, from TN to OK; SC to FL, AL	4 TDEC records, Cocke & Greene Cos.; pvt in Carter & Sullivan Cos.	Uses caves year round; forages along riparian areas/shorelines with forest cover	E	G3
7b	<i>Myotis leibii</i>	Eastern small-footed bat	ME to OH south, from SC to AL; AR, MO, OK; CAN: ON, QC	18 TDEC records, Polk, Monroe, Cocke, Greene, Unicoi, Carter, Johnson, Sullivan Cos.	Bridges, cliffs, mine portals, buildings; summer roosts buildings, hollow trees, loose bark	S	G3
6a	<i>Myotis sodalis</i>	Indiana bat	VT to MI south, to SC, AL; IA to AR, OK	1 TDEC record; Monroe Co; additional ANABAT records Monroe Co.	Hibernates limestone caves; maternity roosts primarily hollow trees or trees with loose bark; forages riparian areas and upland water holes	E	G2

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2a	<i>Sorex palustris punctulatus</i>	Southern water shrew	Mountains of MD, NC, PA, TN, VA, WV	4 TDEC records Monroe Co.	Swift rocky streams in northern & cove hardwoods; often hemlock, mossy rocks, rhododendron; riparian dependent	S	G5T3
Mussels							
1a	<i>Alasmidonta raveneliana</i>	Appalachian elktoe	N, P, FB, LT	1 occ. Nolichucky R.	Small to medium rivers, moderate gradient, moderate elevation	E	G1
1a	<i>Epioblasma florentina walkeri</i>	Tan riffleshell	H	2 occ Hiwassee R. #4 & #5	Small to large rivers, low gradient, low elevation	E	G1T1
1a	<i>Epioblasma metastrata</i>	Upland combshell	C	0 occ Critical Habitat	Large streams to medium rivers, low to moderate gradient, low elevation	E	GH
1a	<i>Epioblasma othcaloogensis</i>	Southern acornshell	C	0 occ Critical Habitat	Large streams to medium rivers, low to moderate gradient, low elevation	E	GHQ
1a	<i>Fusconaia barnesiana</i>	Tennessee pigtoe	H, LT, N, FB, W, SH	2 occ Hiwassee R. #4 & #5; LT habitat is inundated by Tellico Res.	Small to medium rivers, moderate to high gradient, low elevation	S	G2G3
1a	<i>Hamiota-altilis</i>	Finelined pocketbook	C	2 occ Conasauga R #1 & #2	Large streams to medium rivers, low to moderate gradient, low elevation	T	G2
1a	<i>Lasmigona holstonia</i>	Tennessee Heelsplitter	H, FB	1 occ Hiwassee R #4	Small streams to small rivers, low to moderate gradient, low elevation	S	G3
1a	<i>Lasmigona subviridis</i>	Green floater	W	0 occ	Large streams to small rivers, low gradient, low elevation	S	G3
1a	<i>Lexingtonia dolabelloides</i>	Slabside pearly mussel	H, N, FB, P, LT	2 occ Hiwassee R. #4 & #5	Small streams to large rivers, moderate to high gradient, low elevation	S{C}	G2
1a	<i>Medionidus acutissimus</i>	Alabama moccasinshell	C	0 occ Critical Habitat	Large streams, low gradient, low elevation	T	G2
1a	<i>Medionidus parvulus</i>	Coosa moccasinshell	C	0 occ Critical Habitat	Large streams, low gradient, low elevation	E	G1Q
1a	<i>Pleurobema decisum</i>	Southern clubshell	C	0 occ Critical Habitat	Large streams to medium rivers, low to moderate gradient, low elevation	E	G2
1a	<i>Pleurobema georgianum</i>	Southern pigtoe mussel	C	2 occ. Conasauga R #1 & #2	Medium rivers, moderate gradient, low elevation	E	G1
1a	<i>Pleurobema hanleyianum</i>	Georgia pigtoe	C	1 occ Conasauga R #1	Small streams to large rivers, moderate to high gradient, low elevation	S{C}	G1
1a	<i>Pleurobema oviforme</i>	Tennessee clubshell	H, SH, FB, N, LT	3 occ Hiwassee R #4 & #5; Citico Cr #1	Large streams, low gradient, low elevation	S	G2G3
1a	<i>Pleurobema perovatum</i>	Ovate clubshell	C	0 occ Critical Habitat	Large streams, low gradient, low elevation	E	G1
1a	<i>Ptychobranchus greenii</i>	Triangular kidneyshell	C	1 occ Conasauga R #1	Large streams, low gradient, low elevation	E	G1Q
1a	<i>Strophitus connasaugaensis</i>	Alabama creek mussel	C	2 occ. Conasauga R #1 & #2	Large streams, low gradient, low elevation	S	G3
1a	<i>Villosa nebulosa</i>	Alabama rainbow	C	2 occ. Conasauga R #1 & #2	Large streams, low gradient, low elevation	S	G3
1a	<i>Villosa trabalis</i>	Cumberland bean pearly mussel	H, N	2 occ Hiwassee R. #4 & #5	Large streams and small rivers, low gradient, low elevation	E	G1
1a	<i>Villosa vanuxemensis umbrans</i>	Coosa creekshell	C	2 occ. Conasauga R #1 & #2	Small and large streams, low gradient, low elevation	S	G4T2
Reptiles							
1a	<i>Glyptemys mühlenbergii</i> (S. pop)	Bog turtle	MA south to GA, TN	1 TDEC record Johnson Co.; CNF record Carter Co.	Slow, shallow, mucky rivulets of sphagnum bogs, seeps, wet cow pastures, & shrub swamps	T (SA)	G3
Snails							
1a	<i>Pallifera hemphilli</i>	Black mantleslug	MI, NC, TN, GA, VA	0 TDEC records; Field Museum & CNF records Polk (2), Carter (5) Cos.	Spruce fir and mesic forests with moist litter, downed wood and rock cover; high elevation	S	G4

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6a	<i>Paravitrea placentula</i>	Glossy supercoil	VA, TN, NC, KY, GA Off-forest Cocke Co.; unk location Sullivan Co.	0 TDEC records; Field Museum & CNF records Polk(4), Monroe(2), Carter(2), Unicoi(1) Cos.	Leaf litter of deciduous forests and streamside forests with moist litter, downed wood & rock cover.	S	G3
1a	<i>Patera archeri</i>	Ocoee covert	Polk County, TN	3 CNF records Polk County	Leaf litter under rock ledges in ravines; Ocoee River drainage endemic	S	G1
1a	<i>Ventridens coelaxis</i>	Bidentate dome	NC, TN, KY, VA Off-CNF & unk locations Carter, Johnson, Sullivan Cos.; Unicoi Co.	Field Museum & CNF records; Unicoi (1), Carter (5) and Johnson (3) Cos.	Mesic deciduous forest, mid-high elevation	S	G3
7b	<i>Vertigo bollesiana</i>	Delicate vertigo	ME south to TN, NC (17 states, 3 Canadian provinces)	2 records Monroe Co.; 1 Field Museum record Johnson County	Rich coves, acidic coves, other deciduous forests with downed wood	S	G4
6a	<i>Vertigo clappi</i>	Cupped vertigo	KY, TN, VA, WV	5 TDEC records Monroe Co.; TDEC record Carter Co.	leaf litter and debris on steep wooded slopes with boulders and rotting timber	S	G1G2
Non-vascular Plants							
1a	<i>Acrobolbus ciliatus</i>	A liverwort	Mountains of NC, TN, SC, GA. AK, Japan, Taiwan, and India. Monroe Co.	1 Record	On rock in moist ravines, spray cliffs, cascading streams, and spruce/fir forests; Riparian dependent except when in the spruce/fir forest zone.	S	G3?
2a	<i>Aneura maxima</i> (=A. <i>sharpii</i>)	A liverwort	Mountains of VT, south to NC and TN	0 Records	Humus or gravelly soil at base of wet outcrops, along streams, and waterfalls. Mostly riparian dependent	S	G1G2
2a	<i>Aspiromitus appalachianus</i>	A hornwort	TN, NC, SC	Undocumented records have been reported.	On rock in streams. Riparian dependent.	S	G1
1a	<i>Bartramidula wilsonii</i>	Dwarf apple moss	Macon & Jackson Counties, NC and Monroe County, TN	0 Records. Known from Monroe County however site is undocumented.	Wet, acidic rock in the mtns, especially road cuts. Also on spray cliffs and in humid gorges. Mostly riparian dependent.	S	G3?
1a	<i>Bazzania nudicaulis</i>	A liverwort	Mountains of VA, TN, and NC	2 locations; Roan Mountain	On rock and bark of <i>Abies fraseri</i> , <i>Picea rubens</i> , <i>Betula lutea</i> , <i>Prunus pennsylvanica</i> , and <i>Sorbus americana</i> in spruce/fir forests.	S	G2G3
1a	<i>Brachydontium trichodes</i>	Peak moss	Europe, Mount Rainier, NH, NC, and TN	Unknown # on Roan Mountain	Moist, shady, acidic rock, especially sandstone; rocky seepage along mountain trails.	S	G2
1a	<i>Buxbaumia minakatae</i>	Hump-backed Elves	Nova Scotia, MA, NY, MI, VT, VA, NC and Japan	0 Records	Swampy areas; habitats occupied by <i>Nowellia</i> , <i>Lophocolea</i> , and <i>Tetraphis</i> ; rotten logs or stumps; found on elm, ash and yellow birch logs.	S	G2G3
1a	<i>Cephalozia macrostachya</i> ssp. <i>australis</i>	A liverwort	NC to MS	0 Records	On soil in rock crevices along streams. Riparian dependent.	S	G4T1
1a	<i>Cephaloziella massalongi</i>	A liverwort	Europe, VT, TN, and NC	0 Records	Rock crevices and soil above 5,500'. Often with copper or sulphur deposits.	S	G2G3
1a	<i>Cheilolejeunea evansii</i>	A liverwort	NC, SC, AL, and TN. Monroe Co.	1 Record	On tree bark in humid gorges. Variety of mesic to dry-mesic hardwoods including <i>Quercus</i> spp., <i>Liriodendron tulipifera</i> , <i>Nyssa sylvatica</i> , <i>Carya</i> spp., <i>Liquidambar styraciflua</i> , <i>Fraxinus</i> spp., and <i>Ilex opaca</i> . The moss <i>Fissidens subbasilaris</i> is nearly a constant associate.	S	G1
1a	<i>Chiloscyphus appalachianus</i>	A liverwort	KY, NC, SC, and TN. Monroe Co.	1 Record	On wet rock, usually near cascades or waterfalls. Riparian dependent.	S	G1G2

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1a	<i>Diplophyllum apiculatum</i> var <i>taxifolioides</i>	A liverwort	NC, TN The variety <i>taxifolioides</i> is known from several locations in NC and from Mt. Leconte in TN.	0 Records.	On moist soil or rocks at moderate to high elevations. <i>Diplophyllum</i> collected below 3,000 feet is likely to be <i>D. apiculatum</i> (Hicks 1992). The variety is thought to be a hybrid of <i>D. apiculatum</i> and <i>D. taxifolioides</i> (Shuster 1974).	S	G5T1Q
1a	<i>Diplophyllum obtusatum</i>	A liverwort	Newfoundland, MN, mountains of NC & TN	0 Records.	In crevices of rock outcrops in spruce/fir forests; >5,500 ft. Always associated with damp, shaded rocks. It is also known to occur within mixed mesophytic forest in NC (Shuster 1974).	S	G2?
1a	<i>Ditrichum ambiguum</i>	A moss	CA, MT, NC, NH, NY, OR, VT, WA; BC, QC, SK	0 Records.	On bare soil of moist banks of roads or streams in wooded, upland, or montane habitats. Also acidic coves.	S	G3?
7a	<i>Drepanolejeunea appalachiana</i>	A liverwort	Mountains of VA, TN, NC, SC, and GA; PR	4 Records.	On rock and the bark of trees and shrubs along streams, mixed mesophytic forest, and in humid gorges. Most often found on <i>Kalmia</i> , <i>Rhododendron</i> , <i>Clethra</i> , and <i>Ilex</i> . Substrates for the CNF pops include rock, <i>Quercus alba</i> , and <i>Betula allegheniensis</i> .	S	G2?
1a	<i>Entodon concinnus</i>	Lime entodon	NC, TN; AB, BC, NS	0 Records.	On moist calcareous rock.	S	G4G5
1a	<i>Fissidens appalachensis</i>	Appalachian pocket moss	NC and TN. Monroe Co.	1 Record.	In rock crevices submerged in swift running, shallow water. Riparian dependent.	S	G2G3
7a	<i>Frullania appalachiana</i>	A liverwort	Mountains of TN, NC, GA, and SC	0 Records.	Usually on the bark of hardwoods (<i>Acer spicatum</i> , <i>Betula allegheniensis</i> , <i>Sorbus americana</i>) above 3,500 ft. in spruce/fir zone. Also known from mesic forests and escarpment gorges on the bark of <i>Castanea dentata</i> and <i>Liriodendron tulipifera</i> .	S	G1?
1a	<i>Frullania oakesiana</i>	A liverwort	Northern Europe, Japan, and Mountains of VT to NC and TN	0 Records.	Tree bark in spruce/fir forests.	S	G3?
1a	<i>Gymnoderma lineare</i>	Rock gnome lichen	TN, NC, SC, GA	1 Record, Roan Mountain	High elevation rocky summits and rock outcrops.	E	G2
2a	<i>Homaliadelphus sharpii</i>	Sharp's homaliadelphus	Japan, Vietnam, Mex.; MO, VA, NC, and TN	0 Records.	Vertical surfaces and ledges of calcareous cliffs and boulders. Dry mafic or calcareous rocks in gorges.	S	G3
1a	<i>Hydrothyria venosa</i>	An aquatic lichen	CA to MT and Canada; Appalachians from Canada to TN & NC. Monroe Co.	1 Record	On rock substrates in clear, cold mountain streams. Riparian dependent.	S	G3
1a	<i>Lejeunea blomquistii</i>	A liverwort	Mountains of NC, TN, and GA. Monroe Co.	2 Records.	Rock and bark in humid gorges, and dead trees or vertical rock faces of spray cliffs.	S	G1G2
1a	<i>Lejeunea dimorphophylla</i>	A liverwort	The Caribbean; coastal plain of FL and NC	1 possible Record, Monroe County. This has proven to be <i>Lejeunea ulicina</i> ssp. <i>bullata</i> .	On bark of trees in the outer coastal plain. Riparian dependent.	S	G2G3
1a	<i>Leptodontium excelsum</i>	Grandfather Mountain <i>leptodontium</i>	VA, TN, NC, and GA	Unknown # on Roan Mountain	Bark of trees in high elevation, spruce/fir forests.	S	G2
7a	<i>Leptohymenium sharpii</i>	Mount Leconte moss	TN, NC, and SC	0 Records.	On shaded, moist or wet rock (often cliffs and waterfalls) and within hemlock/hardwood cove forests. Elevation ranged from 1900- 5400'.	S	G1

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PRC*	Scientific Name	Common Name	Range/Watershed/ County*	CNF Records	Habitat Information	TES	G-Rank
-	<i>Lophocolea appalachiana</i>	A liverwort		see <i>Chiloscyphus appalachianus</i>	See <i>Chiloscyphus appalachianus</i>	S	G1G2?
1a	<i>Marsupella emarginata</i> var. <i>latiloba</i>	A liverwort	Range unknown	0 Records.	Moist rocks in humid gorges, waterfall spray zones, wet rock & seeps along streams, or humid microclimates at high elevation. Riparian dependent.	S	G5T1T2
2a	<i>Megaceros aenigmaticus</i>	A hornwort	NC, TN, and GA. Monroe and Cocke Co's.	25+ Records (often abundant in areas where found).	Shaded rocks in small streams and springs, or spray cliffs. Riparian dependent.	S	G2G3
1a	<i>Metzgeria fruticulosa</i> (= <i>M. temperata</i>)	A Liverwort	Asia, Europe; PNW US; VA, NC, and TN	1 Record, Roan Mountain	Rock and bark of trees from spruce/fir zone to hemlock/hardwood forests above 3000'.	S	G2Q
1a	<i>Metzgeria furcata</i> var. <i>setigera</i>	A liverwort	NC and SC, possibly TN	0 Records.	In humid gorges or on damp, shaded rocks in spruce/fir forests.	S	G4T1
1a	<i>Metzgeria uncigera</i>	A liverwort	PR; SE coast to mountains of NC	0 Records.	On <i>Rhododendron</i> bark in mountains.	S	G3
1a	<i>Nardia lescurii</i>	A liverwort	VA, WV, KY, TN, NC, SC, and GA. Monroe Co.	3 Records	Low elevations in mountains, on peaty soil over rock near shaded streams. Riparian dependent.	S	G3?
1a	<i>Pellia appalachiana</i>	A liverwort	MN, NC, SC, TN, and GA. Monroe and Polk Co's.	3 Records.	Permanently damp or wet sites and moist outcrops, usually near waterfalls. Mostly riparian dependent	S	G1?
7a	<i>Plagiochila austinii</i>	A liverwort	NH and VT to NC and TN	0 Records.	On shaded, moist rock outcrops in the mountains	S	G3
2a	<i>Plagiochila caduciloba</i>	A liverwort	Mountains of TN, NC, SC, and GA. Monroe Co. (Historic record from Greene County)	2 Records.	Damp, shaded rock faces, usually along streams in mountain gorges and on spray cliffs; 1000-4900 ft. Riparian dependent.	S	G2
1a	<i>Plagiochila echinata</i>	A liverwort	Mountains of TN, NC, and SC. Monroe and Polk Co's.	4 Records.	Damp, shaded rock faces and crevices in mountain gorges, above cascades and near waterfalls. Riparian dependent.	S	G2
2a	<i>Plagiochila sharpii</i>	Sharp's leafy liverwort	TN, NC, SC, and GA	0 Records.	Shaded, moist rocks in humid gorges. Riparian dependent.	S	G2G3
1a	<i>Plagiochila sullivantii</i> var. <i>spinigera</i>	A liverwort	Mountains of VA, WV, NC, SC, and TN. Monroe Co.	1 Record.	Moist, shaded rock outcrops, under cliff ledges, and in rock crevices; spray cliffs and spruce/fir forests; > 2500 ft.	S	G2T1
1a	<i>Plagiochila sullivantii</i> var. <i>sullivantii</i>	Sullivant's leafy liverwort	Mountains of VA, WV, KY, TN, NC, SC, and GA. Monroe Co.	1 Record.	Moist, shaded rock outcrops, cliff ledges and rock crevices; spray cliffs and spruce/fir forests; > 2500 ft.	S	G2T2
2a	<i>Plagiochila virginica</i> var. <i>caroliniana</i>	A liverwort	VA, NC, SC, and TN	2 Records, no varietal info.	On moist rock near waterfalls; humid gorges, and rocky banks of shaded streams. Riparian dependent. Generally at lower elevations.	S	G3T2
1a	<i>Plagiochila virginica</i> var. <i>virginica</i>	A liverwort	WV, to NC, SC, TN, GA, and MS	2 Records, no varietal info.	On shaded rock along streams and moist rock faces, especially limestone. Riparian dependent. Generally at lower elevations.	S	G3T3
2a	<i>Plagiomnium carolinianum</i>	Carolina plagiomnium	TN, NC, SC, and GA	0 Records.	Moist, granitic or humus covered rock, especially on cliff ledges near streams or waterfalls; rocks or streambanks in humid gorges. Riparian dependent.	S	G3
2a	<i>Platyhypnidium pringlei</i>	A moss	Mexico, AZ; NC, SC, and suspected in TN	0 Records.	Attached to acidic rock in running water, permanent seeps, or spray cliffs of waterfalls in hemlock/hardwood forests. Riparian dependent.	S	G2
1a	<i>Polytrichum appalachianum</i>	Appalachian haircap moss	TN and NC	0 Records.	High elevation rocky summits, rock outcrops, and shrub balds.	S	G3

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1a	<i>Porella wataugensis</i>	Watauga porella	KY, TN, NC, and SC. Monroe Co.	2 Records	Rock faces in humid gorges & wet rock near small streams above inundation. Riparian dependent.	S	G2
2a	<i>Radula sullivantii</i>	A liverwort	Mountains of NC, SC, TN, and GA	0 Records.	Shaded rock outcrops near streams and waterfalls in mountain gorges. Riparian dependent.	S	G2
1a	<i>Radula voluta</i>	A liverwort	Europe, South America; mountains of NC and TN. Monroe Co.	1 Record	Shady rock faces in spray areas around waterfalls. Riparian dependent.	S	G3
7a	<i>Riccardia jugata</i>	A liverwort	Mountains of NC and TN. Monroe and Polk Co's.	3 Records.	On moist wood and humus in mesic areas and humid gorges.	S	G1G2
1a	<i>Sphenolobopsis pearsonii</i>	A liverwort	Europe, Africa, Asia, Atlantic and Pacific Islands, Pacific NW; NC and TN	Roan Mountain (Undocumented)	On rock and bark of <i>Abies fraseri</i> , <i>Picea rubens</i> , <i>Prunus pennsylvanica</i> , and <i>Sorbus americana</i> in spruce/fir forests.	S	G2
2a	<i>Sticta limbata</i>	A foliose lichen	Canada to CA; mountains of NC and TN	0 Records.	Bark of hardwoods in high elevation northern hardwood forests	S	G3G4
1a	<i>Taxiphyllum alternans</i>	Japanese yew-moss	Asia; MD to FL, NC, and LA	0 Records.	Soil, humus, or bark in wet, swampy areas; on limestone in the spray area of waterfalls. Riparian dependent.	S	G3?
2a	<i>Tortula ammonsiana</i>	Ammons' tortula	Africa; WV, NC, and TN	0 Records.	Cliff overhangs and crevices with seepage in rich hardwood forests. Riparian dependent.	S	G2?
Vascular Plants							
1a	<i>Aconitum reclinatum</i>	Trailing white monkshood	South and central mountains of NC, PA, TN, VA, WV. Carter Co.	1 Record.	Rich forest habitats on seepage slopes, boulderfields, streambanks, and coves at high elevations, associated with mafic rock.	S	G3
1a	<i>Aster georgianus</i>	Georgia aster	AL, FL, GA, NC. Suspected in SE TN	0 Records	Dry, rocky, open woods and roadsides in areas with a history of frequent fire; Likely associated with historic post or blackjack oak woodlands.	S	G2G3
1a	<i>Berberis canadensis</i>	American barberry	PA to IL, south to AL, GA; IL, MO. Monroe, Johnson, Sullivan, Washington, Carter, and several ridge and valley counties.	0 Records	Open rocky woods, openings, and streambanks, usually over mafic or calcareous rock; occurring in thin soil. Historic habitats were fire maintained.	S	G3
1a	<i>Botrychium jenmanii</i>	Dixie grapefern	MD to FL; TN, AL, MS, LA. Monroe, Hamblen, Putnam Co's.	0 Records	Dry to moist forests; open, grassy areas; and disturbed areas.	S	G3G4
7a	<i>Buckleya distichophylla</i>	Piratebush	Mountains of NC, TN, VA. Carter, Cocke, Greene, Sullivan, Unicoi, Washington Co's.	14 Records.	Open, dry, rocky woods and bluffs, typically calcareous-shale soils; Known sites occur between 1900-3300 ft.	S	G2
1a	<i>Calamagrostis cainii</i>	Cain's reed grass	Mountains of NC, TN. Sevier Co.	0 Records	High elevation rocky summits and disturbed areas 4000-6000 ft.	S	G1
7a	<i>Cardamine clematidis</i>	Small mountain bittercress	Mountains of AL, NC, SC, TN, VA. Carter, Johnson, Unicoi, Washington, Monroe, Sevier Cos.	13 Records	Wet, rocky areas; springs, seeps, and streambanks; moss or moist soil; > 3,500'; Mostly riparian dependent.	S	G2G3
7a	<i>Carex misera</i>	Wretched sedge	Mountains of GA, NC, TN. Blount, Sevier, Carter, Unicoi	4 Records	Medium to high elevation cliffs, balds and rocky areas	S	G3
7a	<i>Carex roanensis</i>	Roan sedge	GA, KY, NC, TN, VA. Carter, Johnson, Unicoi, Cocke, Sullivan	25 Records	Mesic forests; often associated with birch and beech at high elevations.	S	G1

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1a	<i>Cimicifuga rubifolia</i>	Appalachian bugbane	AL, IL, IN, KY, TN. Monroe, Sullivan, & several Ridge and Valley cos.; Primary Cumberland Plateau in TN.	0 Records	River bluffs, ravines, and rich cove forests over talus and rocky calcareous soils; typically north facing slopes; 800-1500 ft.	S	G3
1a	<i>Collinsonia verticillata</i>	Stoneroot	MD to GA; OH, KY, TN. Monroe, McMinn, Blount, Sevier, Johnson, and several counties to west.	0 Records	Rich forests in moist coves to dry oak forests over mafic or calcareous rock.	S	G3
7a	<i>Coreopsis latifolia</i>	Broadleaf tickseed	Mountains of GA, NC, SC, TN. Polk, Carter, Greene	6 Records	Rich, moist cove and slope forests 1,500 to 4,500 ft. Flowering triggered by canopy gaps.	S	G3
7a	<i>Danthonia epilis</i>	Bog oat-grass	GA, NC, NJ, SC, TN. Cocke	0 Records	Seeps around rock outcrops in the mountains. Riparian dependent.	S	G3?
7a	<i>Delphinium exaltatum</i>	Tall larkspur	OH, PA south to TN, NC; AL, MO, ME. Mostly Ridge and Valley Co's, but reported from Cocke Co.; Known from the Blue Ridge in NC.	0 Records;	Dry to moist habitats over mafic rock, usually in full or partial sun (grassy balds or forest edges). Also rich woods (and edges of woods), rocky slopes, semi-open woodlands, glades and prairie openings.	S	G3
1a	<i>Diervilla rivularis</i>	Riverbank bush-honeysuckle	Mountains of AL, GA, NC, TN. Unicoi, Washington, Polk, and some Ridge and Valley Co's.	12 Records	Bluffs, rock outcrops, and riverbanks	S	G3
7a	<i>Fothergilla major</i>	Large witchalder	AL, AR, GA, NC, SC, TN. Polk, Sevier, Greene, and some west of Blue Ridge	3 Records	Dry ridge top and bluff forests of moderate elevations.	S	G3
7a	<i>Gentiana austromontana</i>	Appalachian gentian	Mountains of NC, TN, VA, WV. Carter, Greene, Johnson, Sullivan, Unicoi, Washington Cos.	70 Records	High elevations in open forests, grassy balds, and along roads and trails.	S	G3
1a	<i>Geum geniculatum</i>	Bent avens	Mountains of NC, TN. Carter Co.	5 Records	High elevation peaks, seeps, wet boulderfield forests, grassy balds, cliff bases, and stream banks.	S	G2
1a	<i>Geum radiatum</i>	Spreading avens	Mountains of NC, TN. Sevier, Blount, Carter.	3 Records	Thin soil on rocky summits, cliffs, & ledges; open, grassy balds near <i>Rhododendron catawbiense</i> ; >4200'.	E	G1
1a	<i>Glyceria nubigena</i>	Great Smoky Mountain mannagrass	Mountains of NC, TN. Sevier.	0 Records	Moist to soggy ground at higher elevations, especially seepage areas on heath balds and high ridges and miry places in spruce-fir forests	S	G2
1a	<i>Hedyotis purpurea</i> var. <i>montana</i>	Roan Mountain bluet	Mountains of NC, TN. Carter	1 Record	Habitat includes crevices in rock outcrops and gravelly soils at the edges of grassy balds.	E	G5T2Q
7a	<i>Helianthus glaucophyllus</i>	Whiteleaf sunflower	AL, NC, SC, TN. Carter, Greene, Johnson, Unicoi Cos.	12 Records	Mesic forests and woodlands at medium elevations. Flowering associated with increased light.	S	G3
7a	<i>Heuchera longiflora</i> var. <i>aceroides</i>	Maple-leaf alumroot	Range for <i>H. longiflora</i> is AL, KY, NC, OH, TN, VA, WV. No published range info for variety. Cocke, Greene Cos.	9 Records	Moist ravines and rich cove forests, especially over mafic or calcareous rock.	S	G4T2Q
1a	<i>Hymenophyllum tayloriae</i>	Taylor's filmy fern	NC, SC, TN, GA. Sevier, Fentress, Overton.	0 Records	Humid gorges, moist ceilings of rock grottoes and spray cliffs. Riparian dependent.	S	G1G2
7a	<i>Hypericum graveolens</i>	Mountain St. Johnswort	Mountains of NC, TN. Sevier, Unicoi, Carter, Johnson.	3 Records	High elevation grassy balds and forest openings.	S	G3

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7a	<i>Hypericum mitchellianum</i>	Blue Ridge St. Johns-wort	Mountains of NC, TN, VA, WV. Unicoi, Carter, Cocke, Greene, Johnson, Sevier, Blount, Monroe.	12 Records	Grassy balds, seeps, and forest openings.	S	G3
1a	<i>Ilex collina</i>	Longstalked holly	NC, VA, WV. Suspected in TN	0 Records	Wetlands, seeps, or streambanks >2,000 ft often in association with <i>Tsuga canadensis</i> , <i>Betula lenta</i> , <i>Ilex montana</i> , <i>Picea rubens</i> , and <i>Rhododendron maximum</i> . Also moist, rocky slopes in northern hardwood or mixed spruce/hardwood forests.	S	G3
1a	<i>Isotria medeoloides</i>	Small whorled pogonia	ME to GA; Midwestern US and CAN. Washington, Hamilton.	0 Records	Open deciduous, or mixed pine-deciduous forests, often on dry to moist leaf litter.	T	G2G3
7b	<i>Juglans cinerea</i>	Butternut	Central and eastern US and southeastern CAN. All Blue Ridge counties and scattered throughout TN.	11 Records	Moist, rich forests especially along rivers in bottomlands and floodplains.	S	G3G4
1a	<i>Lilium grayi</i>	Gray's lily	Mountains of NC, TN, VA. Carter and Johnson Co's.	8 Records	Bogs, seeps, grassy balds, moist forest edges, and wet meadows at medium to high elevations.	S	G3
7a	<i>Lysimachia fraseri</i>	Fraser's yellow loosestrife	Regional endemic of AL, GA, NC, SC, TN; KY, IL. Polk, Sevier, Cocke, Hamilton, and a few counties in west TN.	10 Records	Forest edges, road banks, Along streams and rivers, and thin soil near rock outcrops. Locally abundant in the Ocoee River Gorge. Dependent upon cyclical natural disturbances to maintain open conditions.	S	G2
1a	<i>Minuartia godfreyi</i>	Godfrey's stitchwort	Regional endemic AL, AR, FL, NC, SC, TN. Carter, Johnson.	3 Records	Wet ditches, meadows, seeps, streams banks, and springs; associated with calcareous soils. Riparian dependent.	S	G1
7a	<i>Monotropsis odorata</i>	Sweet Pinesap	DE to FL, AL, KY, TN, WV; Centered in Appalachians. Polk, Monroe, Blount, Sevier, Cocke, Greene, and a few counties west.	8 Records	Dry to mesic pine and mixed pine/hardwood forests.	S	G3
7b	<i>Penstemon smallii</i>	Small's beardtongue	Mountains of AL, GA, NC, SC, TN. Polk, Cocke, Greene, Washington, Unicoi, Carter, and several counties west.	0 Records	Woodlands, cliffs, glades, and roadsides.	S	G3
1a	<i>Pityopsis ruthii</i>	Ruth's golden aster	Southeast TN	12 Records; Polk Co.	Crevice in phyllite & greywacke boulders in historical flood zone Ocoee & Hiwassee Rivers.	E	G1
1a	<i>Platanthera integrilabia</i>	White fringeless orchid	VA to GA, KY to AL, MS. Polk, Monroe and several Cumberland Plateau counties	2 Records	Forested wetlands with open or semi-open canopy. Wet, flat, boggy areas at the head of streams or seepage slopes. Often found in association with <i>Sphagnum</i> and <i>Osmunda cinnamomea</i> , <i>Woodwardia areolata</i> , and <i>Thelypteris novaboracensis</i> , in acidic muck or sand, and in partially, but not fully shaded areas.	S	G2G3
1a	<i>Potamogeton tennesseensis</i>	Tennessee pondweed	OH, PA, TN, VA, WV. Polk, Monroe, Blount and counties west	1 Record	Slow moving streams and rivers. Riparian dependent.	S	G2
7b	<i>Prenanthes roanensis</i>	Roan Mountain rattlesnake root	Mountains of NC, TN, VA. Polk, Sevier, Greene, Unicoi, Carter, Johnson	48 Records	High elevation rich woods, grassy balds, and forest openings.	S	G3

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1a	<i>Pycnanthemum beadlei</i>	Beadle's mountain mint	Mountains of southwest VA to GA, TN. Carter	0 Records	Forests and woodland borders.	S	G2G4
1a	<i>Rosa obtusiuscula</i>	Appalachian Valley rose	TN endemic. Only known collection from Cocke Co.	0 Records; not tracked by TDEC; NY Botanical Garden Database lists one record (1897) in Cocke County near French Broad River between Paint Rock and Del Rio.	Listed by TN Natural Heritage (1999) as a rare endemic, known from wooded slopes and riverbanks. Taken off after Rare Plant Advisory Committee meeting (1999) until taxonomic issues are resolved. It could be <i>Rosa palustris</i> . At this point it is considered to be "State Historic".	S	G1G3Q
7a	<i>Rugelia nudicaulis</i>	Rugel's Indian plantain	Mountains of NC, TN. Cocke, Sevier, Blount	0 Records	Spruce/fir and northern hardwood forest openings	S	G3
7a	<i>Saxifraga caroliniana</i>	Carolina saxifrage	Mountains of GA, NC, TN, VA, WV. Carter, Cocke, Johnson Cos.	4 Records	Moist rock outcrops and cliffs; wet soil at the base of rocks; cool, shaded, rocky woods. Almost always in steep terrain and often in areas misted by spray from nearby waterfalls or in areas where water trickles down the rocky slopes.	S	G2
1a	<i>Scutellaria arguta</i>	Hairy skullcap	GA, KY, NC, TN, VA. Unicoi	0 Records	High to mid elevation forests and moist talus slopes	S	G2?Q
7a	<i>Scutellaria saxatilis</i>	Rock skullcap	CT to IN, south to AL, GA, SC, AR. Polk, Blount, Unicoi, Carter, Johnson, Cocke, Greene	43 Records	Rocky, dry to mesic forests and open areas	S	G3
1a	<i>Sedum nevii</i>	Nevius' stonecrop	AL, GA, TN. Polk	9 Records all restricted to the Ocoee River Gorge.	Shaded, rocky bluffs and cliffs	S	G3
1a	<i>Sida hermaphrodita</i>	Virginia fanpetals	KY, MD, OH, PA, TN, VA, IN, MI, Ontario. Cocke, Washington, Claiborne	0 Records	Sandy or rocky riverbanks	S	G2
7b	<i>Silene ovata</i>	Blue Ridge catchfly	AL, AR, GA, IL, IN, KY, MS, NC, SC, TN, VA. Polk, Sevier, Cocke, Greene, Unicoi and west.	4 Records	Mid elevations over mafic or calcareous soils. Rich cove and oak/hickory forests.	S	G2G3
1a	<i>Solidago spithamea</i>	Blue Ridge goldenrod	Mountains of NC, TN. Carter Co, Roan Mtn.	1 Record	Rocky places (outcrops, ledges, cliffs, balds) above 4500 ft.	T	G1
1a	<i>Spiraea virginiana</i>	Virginia spiraea	AL, GA, KY, LA, NC, OH, PA, TN, VA, WV	1 Record, no longer extant; Unicoi Co., Nolichucky River	Riverbanks and riverside shrub thickets; rocky areas susceptible to flood scour. Riparian dependent.	T	G2
7a	<i>Stachys clingmanii</i>	Clingman's hedge-nettle	AL, IN, MD, NC, SC, TN, WV. Monroe, Sevier, Blount, Cocke, Unicoi	7 Records	Rich boulderfields, cove, northern hardwood, and spruce/fir forests, and clearings at high elevations.	S	G2Q
7a	<i>Thaspium pinnatifidum</i>	Cutleaved meadow parsnip	AL, GA, KY, NC, OH, TN, VA. Greene, Cocke, Hamilton	1 Record	Forests and woodlands over calcareous rock	S	G3?
7a	<i>Thermopsis mollis</i> var. <i>fraxinifolia</i>	Ashleaf goldenbanner	Mountains of GA, NC, SC, TN; AL. Polk, Monroe, Blount, Greene	28 Records	Openings and ridges in dry woodlands. Often on road banks.	S	G4? T3?
7a	<i>Trillium rugelii</i>	Southern nodding trillium	Mtns & Piedmont of AL, GA, NC, SC, TN. Carter, Cocke, Unicoi, Washington, Polk, Blount, Sevier	6 Records	Rich forests and coves often over mafic or calcareous substrates.	S	G3
7a	<i>Trillium simile</i>	Sweet white trillium	Mountains of GA, NC, SC, TN. Polk, Monroe, Sevier, Blount, Cocke	Several Records, not in database.	Rich soils of slopes or coves over mafic or calcareous rock.	S	G3
7a	<i>Tsuga caroliniana</i>	Carolina hemlock	Mountains of GA, NC, SC, TN, VA. Carter, Johnson, Sullivan, Unicoi, Washington	51 Records	Ridge tops, rocky bluffs and open forests. Generally dry conditions.	S	G3

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*PRC = Project Review Code; to get the appropriate code for each species use the Project Review Code Key.

* County = Counties from which the species is currently known. Does not represent potential occurrence. Counties of occurrence for vascular plants obtained from University of TN Plant Atlas, online version, 4/04.

Range abbreviations refer to the major watersheds on the Cherokee NF: Conasauga, Ocoee, Hiwassee, Little Tennessee, Pigeon, French Broad, Nolichucky, Watauga, and South Holton.

Forest Occurrence Data is based upon currently known records. It is NOT necessarily reflective of potential occurrence, especially for plants.

Habitat Information is only a summary. For a more thorough discussion on species, refer to the individual species write-ups provided.

For streams the following definitions apply:

Orders

small: 3, 4

medium: 5, 6, 7

large: 8, 9

Gradients

low: $\leq 2\%$

moderate: $> 2\% - \leq 4\%$

high: $> 4\%$

Elevations

low: $\leq 1200'$

high: $> 1200'$